



WELCOME! WHO DO WE HAVE WITH US?

Using the annotation tool, place your mark in the box that most closely describes your affiliation.



1

I am a **stakeholder**
who **participated**
in November's workshops.

I am a **stakeholder**
who did **NOT** participate
in November's workshops.

Other

USACE or
City & County of Honolulu

Other Government Agency
(state, fed, local)

Annotation Tool

Chat

Connect audio

Start video

Share

Record

Breakout sessions



Participants

Chat



ALA WAI FLOOD RISK MANAGEMENT GENERAL RE-EVALUATION STUDY

INFORMATION FORUM

US Army Corps of Engineers (USACE)
City and County of Honolulu (CCH)

20 January 2022



US Army Corps
of Engineers®



Eric Tessmer (2017)



Cory Lum, *Civil Beat* (2015)



TODAY'S AGENDA



1. Introduction and opening remarks ← You are here!
2. Recap and (re-)orientation
3. Summary of study process and progress
4. Enhanced public engagement plan
5. Q & A
6. Wrap-up: ways to stay engaged



HOSTS & DISCUSSANTS



Presenters:

- **Cindy Acpal**, Project Manager (USACE)
- **Eric Merriam**, PhD, PMP; Planner (USACE);
Study Lead

MC / Lead Facilitator:

- **Tyson Vaughan**, PhD; Sociologist (USACE)

Discussants (USACE):

- **Kelley Philbin**, PE; Engineer (USACE);
Technical Lead
- **Jeffrey Herzog**, Deputy Chief, Civil and Public Works (USACE)

Discussants (CCH):

- **Alex Kozlov**, PE; Director, Department of Design and Construction, City & County of Honolulu
- **Haku Milles**, PE, LEED AP; Deputy Director, Department of Design and Construction, City & County of Honolulu
- **Matthew Gonser**, AICP, CFM; Chief Resilience Officer, Office of Climate Change, Sustainability and Resiliency, City & County of Honolulu



GROUND RULES: PRESENTATIONS



1. Post comments and questions in the chat, or hold until Q&A.
2. Keep your audio on mute during the presentations.
3. If you are having technical difficulties, let us know via the chat and/or email to Tyson Vaughan: Earl.T.Vaughan@usace.army.mil.



OPENING REMARKS: DIR. ALEX KOZLOV



- ➔ A **must do**, capital flood mitigation project in the greater Ala Wai watershed
 - For the protection of people, property and infrastructure
 - Manage risk to the largest civilian economic engine in Hawaii

- ➔ City Leadership is unambiguous in its commitment to the capital project
 - Mayor actively participated in the entirety of the public outreach workshops in November.

- ➔ This is not a comprehensive project to solve all problems in the watershed; it is just one piece, albeit an important one, which focuses specifically on reducing riverine flood risk.



RECAP: WHY WE ARE HERE



Approximately 200,000 residents.

Economically important.

Infrastructure, critical facilities, and services.

1% annual exceedance probability floodplain
maximum inundation extent





RECAP: WHY WE ARE HERE



Originally authorized project not federally justified

Current study not constrained to the 1% annual exceedance probability event

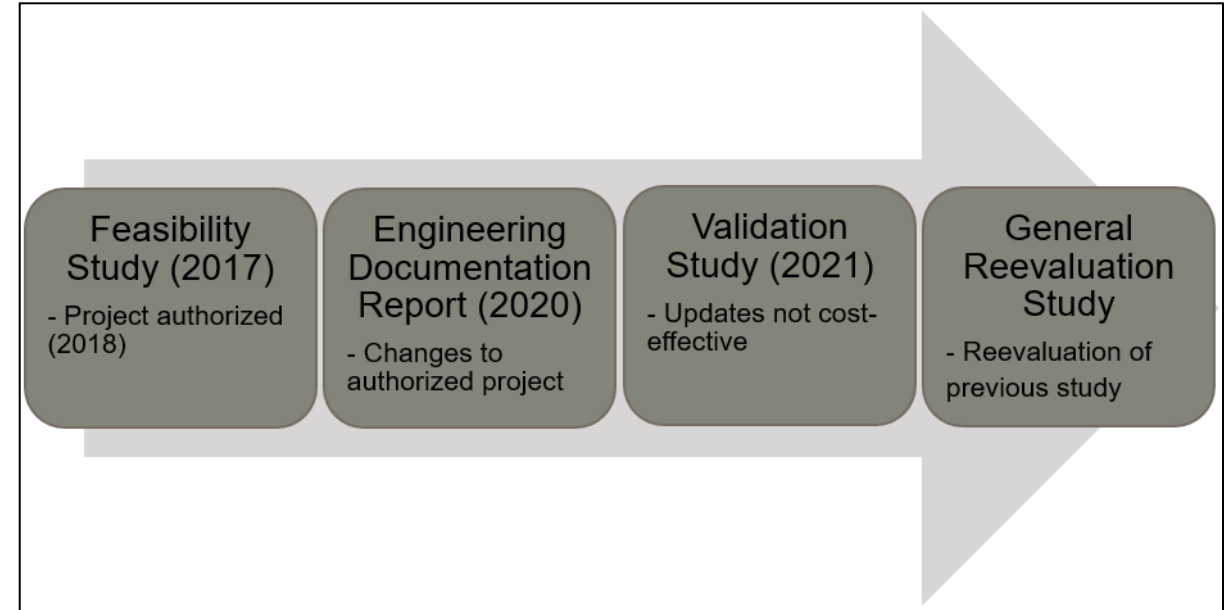
Current study funded to assess riverine flooding

Coastal processes & ecosystem improvements considered to extent they affect riverine flooding

Objectives of current study:

1. Reduce risks to life and safety
2. Reduce economic damages to structures and infrastructure
3. Reduce economic impacts to commerce and tourism

Public input critical to overall success of study

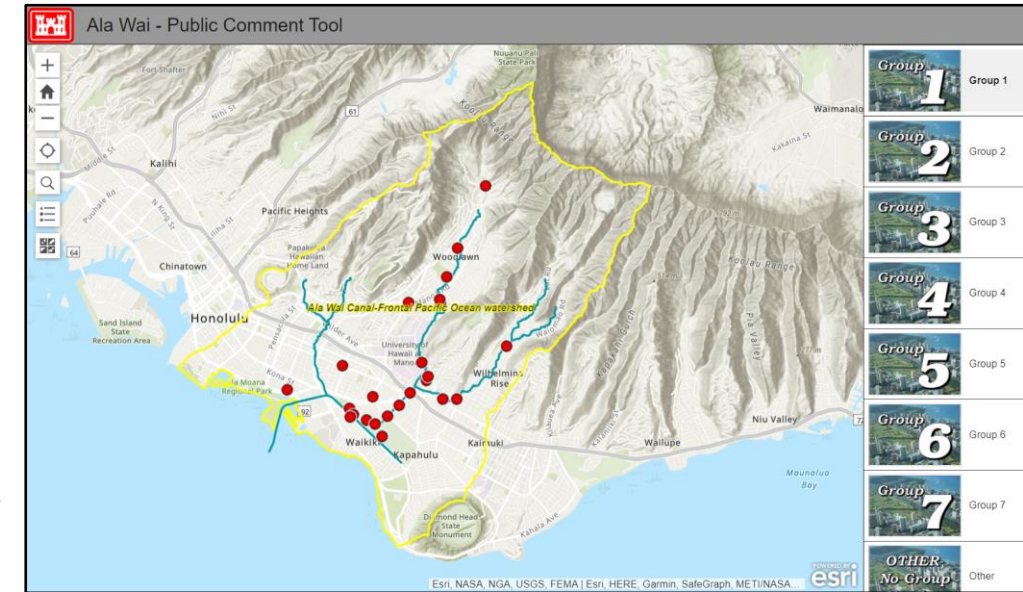




NOVEMBER WORKSHOPS

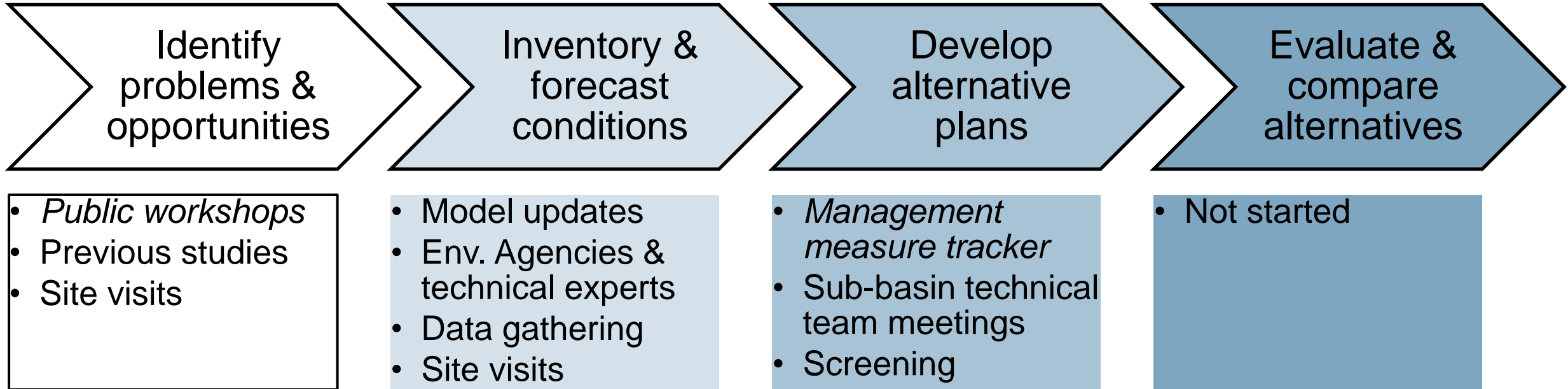


1. TRUST
2. More participation in planning and decision-making process
3. Other frustrations with the USACE process
4. Please (re-)consider public input from prior Ala Wai studies
5. Agreement that some FRM solution is necessary
6. Optimism that an appropriate plan can be realized
7. Optimism that the current CCH administration will work with USACE to get it right

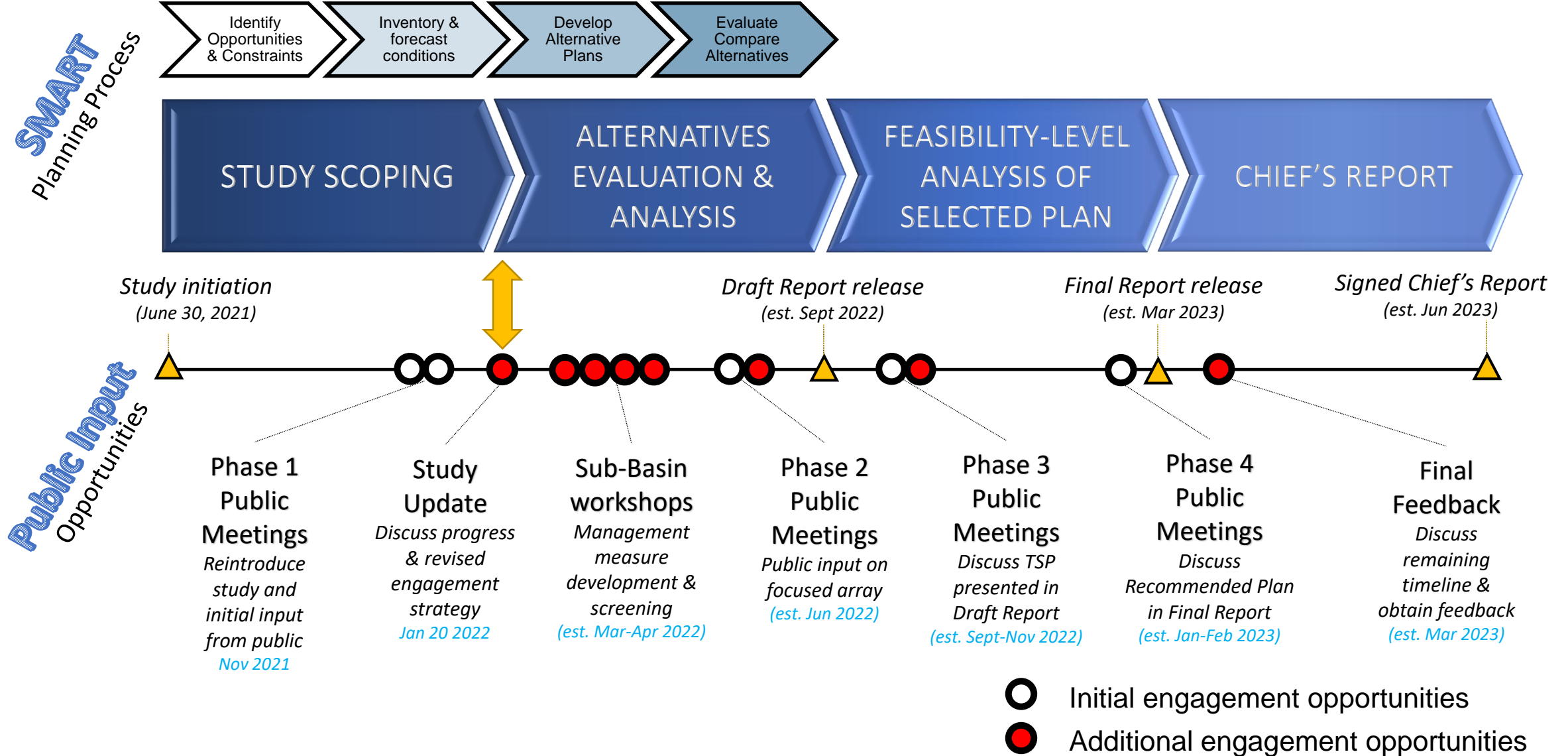




STUDY PROCESS & PROGRESS



ENHANCED PUBLIC ENGAGEMENT: MEETINGS





ENHANCED PUBLIC ENGAGEMENT: ONLINE

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Website is central hub for online information and engagement

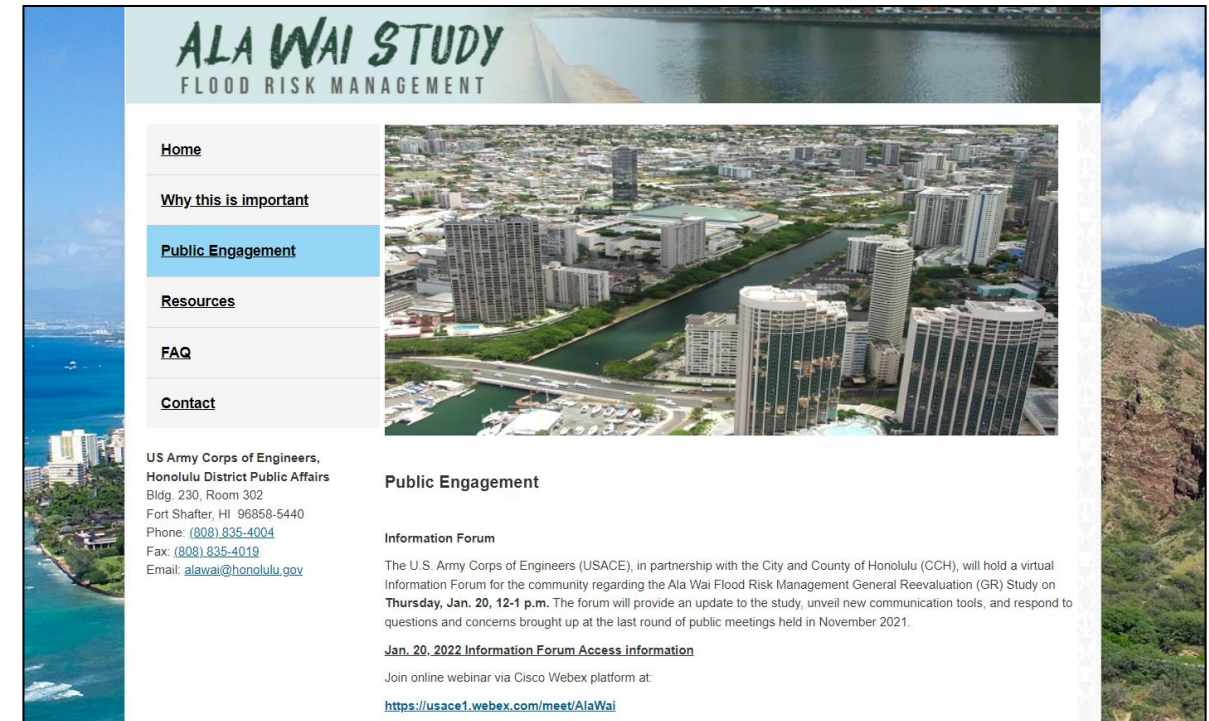
Updated public engagement plan/timeline

Responsive information:

- Revised FAQs
- Records of public meetings/engagements
- Explanations of complex issues (as needed)
- Management measure tracker

Features for receiving information:

- Contact information, including email
- Submittal contact form
- Crowdscore Reporter (until Jan 31)



If you have an idea or comment – write! Via the email, comment form, or Crowdscore Reporter.



ENHANCED PUBLIC ENGAGEMENT: ONLINE



Management measure tracker:

- Available on website
- Regularly updated
- Focused, real-time feedback on technical & planning process
- Current & previous study phases
- Approximately 180 measures currently in tracker

***Technical team still identifying initial measures. Measures still being accepted from public*

Measure Name	Measure Type	Location	Description	Status	Notes
Flap gates on storm drains	Non-structural	Ala Wai Blvd. between Kalakaua and Ala Moana Blvd.	During high tide Ala Wai Blvd. between Kalakaua and the cul de sac ending at Ala Moana Blvd. floods. Ala Wai canal in this area needs flap gates to keep Ala Wai Canal water from flooding storm drains and flooding streets.	Under consideration	
Elevate canal walls	Structural	Ala Wai Canal	Increase canal capacity by elevating the existing canal floodwalls	Under consideration	
Deepen the canal	Structural	Ala Wai Canal	Excavate to deepen the existing canal and stabilize existing floodwalls.	Under consideration	
Deepen canal for periodic pump drainage	Structural	Ala Wai Canal	Dig existing walls deeper to turn the canal into a periodic pump drainage to address inundation by all three sources of flooding	Under consideration	
New canal walls	Structural	Ala Wai Canal	Construct new canal walls as the existing wall is old and crumbling	Under consideration	
Widen canal	Structural	Ala Wai Canal	Widen the canal to provide greater flow and storage capacity	Under consideration	
Dredge canal to original depth	Structural	Ala Wai Canal	Dredge canal down to its original depth of 15' to 25' since current dredging only goes down to 12'.	Under consideration	
Dredge Manoa-Palolo	Structural	Ala Wai Canal	Dredge the Manoa-Palolo channel	Under consideration	
Canal clean ups	Non-structural	Ala Wai Canal	Involve the community to conduct regular clean ups	Under consideration	
EM to eliminate sludge	Non-structural	Ala Wai Canal	Use "genki balls" to clean up and eliminate sludge in the canal.	Under consideration	
Debris management	Non-structural	Ala Wai Canal	Better manage the debris that ends up in the canal	Under consideration	
Submersible pumps	Structural	Ala Wai Canal	Use underwater pumps to create a lower profile pumping station	Under consideration	
Miter gates	Structural	Ala Wai Canal	Use several smaller radius miter gates to minimize visual impacts (to be used in conjunction with pump station)	Under consideration	
Lowered gate structure	Structural	Ala Wai Canal	Use a lowered structure underwater that could be raised in an event instead of a miter dam. (to be used in conjunction with pump station)	Under consideration	
Retractable flood barriers	Structural	Ala Wai Canal	Relocate pump station to the golf course. Use a series of retractable flood barriers that would allow for 4 rowing lanes (44' wide) across the width of the canal.	Under consideration	

NOTE: Displaying example measures previously contributed by stakeholders and/or members of the public.



ENHANCED PUBLIC ENGAGEMENT: NEXT 90 DAYS



- January 20, 2022 (Thurs): Public Information Forum (virtual)
- March - April 2022: workshops targeting sub-watersheds
- Ongoing: public input via website and email
- Crowdsourcing Reporter until end of January
- Public informs the process, so if you want to be heard... write.
- USACE must start the process of developing, analyzing and selecting alternatives after workshops
- Final decision will be made by the City based on recommendation from USACE



GROUND RULES: Q & A



1. Post comments and questions in the chat or use the “raise hand” tool.
2. Keep your audio on mute unless speaking.
3. Introduce yourself briefly the first time you speak.
4. When speaking, be conscious of acronyms and technical language.
5. Be mindful and help ensure that others have a chance to speak.
6. One verbal comment or question per person, please.



MAHALO



Thank you for your participation! Please stay engaged:

- Email the project team: AlaWai@Honolulu.gov.
- Post more ideas on Crowdsource Reporter! (until January 31)
<https://lrp.maps.arcgis.com/apps/CrowdsourceReporter/index.html?appid=df9e77cff6454945ad3dc75716a044ec>
- Check the project website: <https://www.honolulu.gov/AlaWai>.
 - “Contact Us” form
 - Public meeting announcements
 - Public engagement plan
 - FAQs
 - Management measure tracker